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Application : 10/670226 Examiner : Duden GAU : 2871
From : J. Black Location : IDC FMF FDC Date : 5/11/05
Tracking # : 06091519 Week Date : 4/4/05

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[RUSH] MESSAGE:

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REV 10/04

ACTIVE-MATRIX LIQUID CRYSTAL DISPLAY

CROSS REFERENCE TO RELATED APPLICATION

This is a continuation of U.S. application Serial No. 09/904,835, filed July 16, 2001 and U.S. application Serial No. 09/029,747, filed March 2, 1998, now U.S.

5 Patent No. 6,266,117, which is a 371 of PCT/JP96/102562, filed September 9, 1996, the subject matter of which is incorporated by reference herein.

FIELD OF THE INVENTION

The present invention relates to an active-matrix liquid crystal display device, and particularly to a liquid crystal display device of the so-called in-plane field type.

10 BACKGROUND OF THE INVENTION

In color liquid crystal display devices of the in-plane field type, one or both of two transparent substrates placed opposite to each other, with a liquid crystal layer disposed in between, have display electrodes and reference electrodes arranged in areas on the sides of the liquid crystal corresponding to unit pixels, and an electric
15 field parallel to the transparent substrate surface is produced between the display electrodes and the reference electrodes to modulate light passing through the liquid crystal layer.

Such a color liquid crystal display device can produce a picture that can be recognized at a wide viewing angle and has become known for its excellence in the
20 so-called wide angle visual field.

Liquid crystal display devices with the above configuration are described in detail, for example, in the Published Japanese Translation of PCT International Publication for Japanese Patent Application No. 505247/1993, Japanese Patent Publication No. 21907/1988, and Japanese Patent Laid-Open No. 160878/1994.

25 It has been pointed out that liquid crystal display devices of this configuration, however, have a problem in that an undesired electric field produced from the video signal line changes the electric field between the display electrodes and the